

इंटरनेट

मानक

Disclosure to Promote the Right To Information

Whereas the Parliament of India has set out to provide a practical regime of right to information for citizens to secure access to information under the control of public authorities, in order to promote transparency and accountability in the working of every public authority, and whereas the attached publication of the Bureau of Indian Standards is of particular interest to the public, particularly disadvantaged communities and those engaged in the pursuit of education and knowledge, the attached public safety standard is made available to promote the timely dissemination of this information in an accurate manner to the public.

“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 755 (1984): Handloom Cotton Malmal [TXD 8: Handloom and Khadi]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

BLANK PAGE



IS : 755 - 1984
(Reaffirmed 1997)

Indian Standard
SPECIFICATION FOR
HANDLOOM COTTON *MALMAL*
(*First Revision*)

First Reprint JUNE 1998

UDC 677.21.074 MUL

© *Copyright* 1985

BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

Indian Standard

SPECIFICATION FOR HANDLOOM COTTON *MALMAL*

(*First Revision*)

Handloom and Khadi Sectional Committee, TDC 13

Chairman

ADDITIONAL SECRETARY & DEVELOPMENT COMMISSIONER FOR HANDLOOMS

Representing

Development Commissioner for Handlooms,
New Delhi

Vice-Chairman

DIRECTOR OF HANDLOOMS & TEXTILES
Directorate of Handlooms & Textiles Government of Tamil Nadu, Madras

Members

JOINT DIRECTOR OF HANDLOOMS
AND TEXTILES (*Alternate to*

Director of Handlooms & Textiles)

SHRI A. T. BASAK

Directorate General of Supplies & Disposals,
(Inspection Wing), New Delhi

SHRI T. CHANDRAMOHAN

The Simplex Mills Co Ltd, Bombay

SHRI N. MURUGANANDHAM (*Alternate*)

SHRI P. K. DAS

Directorate of Handlooms & Textiles, Government of West Bengal, Calcutta

SHRI SAMIR MUKHERJEE (*Alternate*)

DIRECTOR (WEAVING) WEAVERS
SERVICE CENTRE, MADRAS

Development Commissioner for Handlooms,
New Delhi

SHRI L. DESI GOWDA

Development Commissioner for Handlooms,
New Delhi

SHRI B. B. GUPTA

Government of Uttar Pradesh

SHRI G. D. BANERJEE (*Alternate*)

SHRI M. KANNAFFAN

The Silk & Art Silk Mills' Research Association,
Bombay

DR M. N. U. KURUP

Ministry of Defence (DGI)

SHRI P. C. BASU (*Alternate*)

SHRI T. MAHADEVAN

The Handloom Export Promotion Council,
Madras

(*Continued on page 2*)

© Copyright 1985

BUREAU OF INDIAN STANDARDS

This publication is protected under the *Indian Copyright Act* (XIV of 1957) and reproduction in whole or in part by any means except with written permission of the publisher shall be deemed to be an infringement of copyright under the said Act.

(Continued from page 1)

<i>Members</i>	<i>Representing</i>
SHRI K. MANIVANNAN	Directorate of Industries, Government of Haryana, Chandigarh
SHRI C. R. YADAV (Alternate)	
SHRI A. P. NAMBIAR	Kerala State Handloom Development Corporation Limited, Cannanore
SHRI G. S. NAIR (Alternate)	
SHRI C. V. PRABHAKARAN	The Khadi and Village Industries Commission, Bombay
SHRI M. G. RAJAN	Textiles Committee, Bombay
SHRI A. S. RAMA RAO (Alternate)	
SHRI S. RANGARAJAN	The Handicrafts and Handlooms Exports Corporation of India Ltd, Madras
SHRI R. LAKSHMANAN (Alternate)	
SHRI T. RANGASWAMY	The Southern India Mills' Association, Coimbatore
REGIONAL MANAGER	Andhra Pradesh State Handloom Weavers' Co-operative Society Ltd, Vijayawada
SECRETARY-INCHARGE	All India Handloom Fabrics Marketing Co-operative Society Ltd, Bombay
SHRI A. RAJAMANI (Alternate)	
SENIOR EXECUTIVE & SPECIAL OFFICER	The Tamil Nadu Handloom Weavers' Co-operative Society Ltd, Madras
SENIOR MANAGER (DESIGN & PRODUCT DEVELOPMENT (Alternate)	
SHRI K. VIDYA SAGAR	Andhra Pradesh State Textile Development Corporation Ltd, Hyderabad
SHRI S. M. CHAKRABORTY, Director (Tex)	Director General, ISI (Ex-officio Member)

Secretary

SHRI A. R. BANERJEE
Senior Deputy Director (Tex), ISI

Handloom and Khadi Cotton Cloth Subcommittee, TDC 13:1

Convener

DIRECTOR, INDIAN INSTITUTE OF HANDLOOM TECHNOLOGY, VARANASI	Development Commissioner for Handlooms, New Delhi
---	---

Members

SHRI A. T. BASAK	Directorate General of Supplies & Disposals (Inspection Wing), New Delhi
SHRI P. K. DAS	Directorate of Handlooms & Textiles, Governments of West Bengal, Calcutta
SHRI SAMIR MUKHERJEE (Alternate)	
SHRI L. DESI GOWDA	Development Commissioner for Handlooms, New Delhi

(Continued on page 9)

Indian Standard

SPECIFICATION FOR HANDLOOM COTTON *MALMAL*

(*First Revision*)

0. FOREWORD

0.1 This Indian Standard (First Revision) was adopted by the Indian Standards Institution on 10 August 1984, after the draft finalized by the Handloom and Khadi Sectional Committee had been approved by the Textile Division Council.

0.2 This standard which was first published in 1955, has been taken up for revision in order to make it up-to-date. Important changes carried out in the standard are:

- a) deletion of breaking strength values since the standard recommends the use of yarns conforming to IS : 171-1973*,
- b) inclusion of seven new varieties and deletion of three out of four existing varieties,
- c) inclusion of colour fastness requirement for dyed handloom cotton *MALMAL*, and
- d) inclusion of inspection, marking and packing clauses.

0.3 For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test, shall be rounded off in accordance with IS : 2-1980†. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

1. SCOPE

1.1 This standard prescribes the constructional particulars and other requirements of eight varieties of handloom cotton *MALMAL*. The cloth may be grey, bleached, striped or checked.

*Specification for grey cotton yarn (*second revision*).

†Rules for rounding off numerical values (*revised*).

1.2 This standard does not specify the general appearance, feel, finish, etc, of the cloth (*see 4.3*).

2. TERMINOLOGY

2.1 MALMAL — An Indian term generally applied to fine cotton fabric slightly heavier than muslin.

3. MANUFACTURE

3.1 Yarn — The cotton yarn used in the manufacture of *MALMAL* cloth shall conform to the requirements of IS : 171-1973*.

3.2 Cloth — The cloth shall be free from substances liable to cause subsequent tendering.

4. REQUIREMENTS

4.1 The constructional particulars of *MALMAL* shall conform to those given in Table 1.

4.2 The cloth shall also conform to the requirements given in Table 2.

4.3 If in order to illustrate or specify the indeterminable characteristics, such as general appearance, lustre, feel and shade of the cloth, a sample has been agreed upon and sealed, the supply shall be in conformity with the sample in such respects.

4.3.1 The custody of the sealed sample shall be a matter of prior agreement between the buyer and the seller.

5. INSPECTION

5.1 The cloth when visually inspected should be reasonably free from the following defects:

- a) Weft crack or more than two missing picks across the width of the material.
- b) Prominently noticeable weft bar due to the difference in raw material, count, twist, lustre, etc.
- c) More than two adjacent ends running parallel, broken or missing and extending beyond 15 cm.
- d) Prominent selvedge defects.
- e) Noticeable warp or weft float in the body.
- f) Noticeable oil or other stains.
- g) Noticeable hole, cut or tear up to 3 mm in size.

*Specification for grey cotton yarn (*second revision*).

- h) Smash rupturing the texture or the fabric.
- j) Undressed snarls noticeable throughout the piece.
- k) Conspicuous gout due to foreign matter usually lint or waste woven into cloth.
- m) Conspicuous broken pattern.
- n) Dyeing defects (bars, streaks and patches).
- p) Any other flaw which would mar the appearance or affect the serviceability and/or durability of the cloth.

TABLE 1 CONSTRUCTIONAL PARTICULARS OF HANDLOOM COTTON MALMAL

(Clause 4.1)

VARIETY No.	COUNT OF YARN FOR GUIDANCE ONLY		ENDS/ cm	PICKS/ cm	MASS g/m ²	LEN- GTH m	WIDTH cm	WEAVE
	Warp	Weft						
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
	Cotton tex Count	Cotton tex Count						
1	100s (5·9)	100s (5·9)	32	32	39	20 or as dec- lared	90, 114, 119, 120, or as agre- ed	Plain
2	100s (5·9)	100s (5·9)	40	40	48			
3	80s (7·4)	80s (7·4)	27	27	42			
4	80s (7·4)	80s (7·4)	32	31	49			
5	60s (9·8)	80s (7·4)	27	27	50			
6	60s (9·8)	80s (7·4)	29	33	56			
7	60s (9·8)	60s (9·8)	28	24	54			
8	60s (9·8)	60s (9·8)	32	28	62			
TOLERANCE, PERCENT	—	—	± 5	± 5	± 5	^{see} Note	± 2	—
METHOD OF TEST	—	—	IS:1963- 1981*		IS:1964- 1970†	IS:1954- 1969‡	Visual	

NOTE — The length shall not be less than the declared or marked value.

*Method for determination of threads per unit length in woven fabrics (*second revision*).

†Methods for determination of weight per square metre and weight for linear metre of fabrics (*first revision*).

‡Methods for determination of length and width of fabrics (*first revision*).

5.1.1 A reference may be made to IS : 4125-1967* for details of these defects.

*Glossary of terms pertaining to defects in fabrics.

TABLE 2 REQUIREMENTS OF HANDLOOM COTTON MALMAL

(Clause 4.2)

Sl. No.	CHARACTERISTICS	REQUIREMENTS	METHODS OF TEST
I.	Dimensional change, percent, <i>Max</i>		
	a) Loomstate	5.0	IS : 2977-1964*
	b) Processed	4.0	
II.	Scouring loss, percent, <i>Max</i>		
	a) for loomstate cotton <i>MALMAL</i>	6.0	IS : 1383-1977†
	b) for processed cotton <i>MALMAL</i>	2.5	(Mild Method)
III.	Colour fastness (for dyed <i>MALMAL</i> only) to:		
	a) Light	4 or better	IS : 686-1957‡ or IS : 2454-1967§
	b) Washing: Test 4:		
	i) Change in colour	3 or better	IS : 765-1979
	ii) Staining on cotton	3 or better	
	c) Perspiration:		IS : 971-1956¶
	i) Change in colour	4 or better	IS : 762-1956**
	ii) Staining on cotton	4 or better	
	d) Bleaching (Hypochlorite)		
	i) Change in colour	4 or better	
	ii) Staining on cotton	4 or better	

*Method for determination of dimensional changes of woven fabrics (other than wool) on soaking in water.

†Methods for determination of scouring loss in grey and finished cotton textile materials (*first revision*).

‡Methods for determination of colour fastness of textile materials to daylight.

§Methods for determination of colour fastness of textile materials to artificial light (xenon-lamp).

||Method for determination of colour fastness of textile materials to washing: Test 4 (*second revision*).

¶Method for determination of colour fastness of textile materials to perspiration.

**Method for determination of colour fastness of textile materials to hypochlorite bleaching.

6. MARKING

6.1 The cloth shall be suitably marked or labelled with the following information:

- Name of the material and variety number;
- Manufacturer's name, initials or trade-mark, if any; and
- Length (m) and width (cm) of the piece.

6.1.1 The product may also be marked with Standard Mark.

6.2 The use of the Standard Mark is governed by the provisions of *Bureau of Indian Standards Act, 1986* and the Rules and Regulations made thereunder. The details of conditions under which the licence for the use of Standard Mark may be granted to manufacturers or producers may be obtained from the Bureau of Indian Standards.

7. PACKING

7.1 Unless otherwise agreed upon by the buyer and the seller, the cloth shall be packed in bales or cases in conformity with the procedure laid down in IS : 1347-1972* or IS : 293-1980†.

8. SAMPLING

8.1 Lot — The quantity of handloom cotton *MALMAL* of same variety, width and colour delivered to a buyer at a time shall constitute a lot.

8.2 To ascertain the conformity of the lot to the requirements of this standard, samples shall be drawn and inspected from each lot separately.

8.3 The number of pieces shall be selected at random for inspection shall be in accordance with Table 3.

TABLE 3 SAMPLE SIZE AND PERMISSIBLE NUMBER OF NON-CONFORMING PIECES

LOT SIZE	SAMPLE SIZE	PERMISSIBLE No. OF NON-CONFORM- ING PIECES	SUB-SAMPLE SIZE
(1)	(2)	(3)	(4)
Up to 25	3	0	2
26 „ 50	5	0	2
51 „ 150	8	0	3
151 „ 300	13	1	3
301 „ 500	20	1	5
501 „ 1 000	32	2	5
1 001 and above	50	3	8

8.4 For selection of samples at random from the lot, procedure given in IS : 4905-1968‡ may be followed.

*Specification for inland packaging of cotton cloth and yarn (*first revision*).

†Code for seaworthy packaging of cotton yarn and cloth (*third revision*).

‡Methods for random sampling.

8.5 Number of Tests and Criteria for Conformity

Ends, picks, mass, length and width, indeterminate characteristics and visual inspection	According to col 2 of Table 3	Number of non-conforming pieces shall not exceed the corresponding number given in col 3 of Table 3
Dimensional change, colour fastness to washing, perspiration, bleaching and scouring loss	According to col 4 of Table 3	All the test specimens shall meet the requirements
Colour fastness to light	2 for lot sizes of 300 or less and 3 for lot sizes of 301 and above	do

(Continued from page 2)

<i>Members</i>	<i>Representing</i>
SHRI B. B. GUPTA	Government of Uttar Pradesh
SHRI G. D. BANERJEE (<i>Alternate</i>)	
SHRI B. R. KOWSHIK	Textiles Committee, Bombay
DR M. N. U. KURUP	Ministry of Defence (DGI)
SHRI N. K. NAGPAL (<i>Alternate</i>)	
SHRI C. V. PRABHAKARAN	The Khadi & Village Industries Commission, Bombay
SHRI M. V. RAMACHANDRA (<i>Alternate</i>)	
SHRI S. RANGARAJAN	The Handicrafts and Handlooms Exports Corporation of India Ltd, Madras
SHRI R. LAKSHMANAN (<i>Alternate</i>)	
SENIOR EXECUTIVE & SPECIAL OFFICER	The Tamil Nadu Handloom Weavers' Co-operative Society Ltd, Madras
SENIOR MANAGER (DESIGN & PRODUCT DEVELOPMENT) (<i>Alternate</i>)	
SHRI T. O. THOMAS	Kerala State Handloom Weavers' Co-operative Society Ltd, Trivandrum

BUREAU OF INDIAN STANDARDS

Headquarters:

Manak Bhavan, 9 Bahadur Shah Zafar Marg, NEW DELHI 110002

Telephones: 323 0131, 323 3375, 323 9402

Fax : 91 11 3234062, 91 11 3239399, 91 11 3239382

Telegrams : Manaksanstha

(Common to all Offices)

Telephone

Central Laboratory :

Plot No. 20/9, Site IV, Sahibabad Industrial Area, Sahibabad 201010

8-77 00 32

Regional Offices:

Central : Manak Bhavan, 9 Bahadur Shah Zafar Marg, NEW DELHI 110002 323 76 17

*Eastern : 1/14 CIT Scheme VII M, V.I.P. Road, Maniktola, CALCUTTA 700054 337 86 62

Northern : SCO 335-336, Sector 34-A, CHANDIGARH 160022 60 38 43

Southern : C.I.T. Campus, IV Cross Road, CHENNAI 600113 235 23 15

†Western : Manakalaya, E9, Behind Marol Telephone Exchange, Andheri (East),
MUMBAI 400093 832 92 95

Branch Offices::

'Pushpak', Nurmohamed Shaikh Marg, Khanpur, AHMEDABAD 380001 550 13 48

‡Peenya Industrial Area, 1st Stage, Bangalore-Tumkur Road,
BANGALORE 560058 839 49 55

Gangotri Complex, 5th Floor, Bhadbhada Road, T.T. Nagar, BHOPAL 462003 55 40 21

Plot No. 62-63, Unit VI, Ganga Nagar, BHUBANESHWAR 751001 40 36 27

Kalaikathir Buildings, 670 Avinashi Road, COIMBATORE 641037 21 01 41

Plot No. 43, Sector 16 A, Mathura Road, FARIDABAD 121001 8-28 88 01

Savitri Complex, 116 G.T. Road, GHAZIABAD 201001 8-71 19 96

53/5 Ward No.29, R.G. Barua Road, 5th By-lane, GUWAHATI 781003 54 11 37

5-8-56C, L.N. Gupta Marg, Nampally Station Road, HYDERABAD 500001 20 10 83

E-52, Chitaranjan Marg, C-Scheme, JAIPUR 302001 37 29 25

117/418 B, Sarvodaya Nagar, KANPUR 208005 21 68 76

Seth Bhawan, 2nd Floor, Behind Leela Cinema, Naval Kishore Road,
LUCKNOW 226001 23 89 23

NIT Building, Second Floor, Gokulpat Market, NAGPUR 440010 52 51 71

Patliputra Industrial Estate, PATNA 800013 26 23 05

Institution of Engineers (India) Building 1332 Shivaji Nagar, PUNE 411005 32 36 35

T.C. No. 14/1421, University P. O. Palayam, THIRUVANANTHAPURAM 695034 6 21 17

*Sales Office is at 5 Chowringhee Approach, P.O. Princep Street,
CALCUTTA 700072 27 10 85

†Sales Office is at Novelty Chambers, Grant Road, MUMBAI 400007 309 65 28

‡Sales Office is at 'F' Block, Unity Building, Narashimaraja Square,
BANGALORE 560002 222 39 71